

LAB Assignment- Solution

1. Create table **EMPLOYEE** with the following details.

FIELD NAME	TYPE
EMPLOYEE_ID	NUMBER (6)
LAST_NAME	VARCHAR2(25)
JOB_ID	VARCHAR2(10)
SALARY	NUMBER (8,2)
COMM_PCT	NUMBER (4,2)
MGR_ID	NUMBER (6)
DEPARTMENT_ID	NUMBER (4)

```
mysql> use anudip99;
```

```
mysql> create table employee(emp_id int(6), last_name varchar(25), job_id varchar(10), salary int(8),  
comm_pct int(4), mgr_id int(6), dept_id int(4));
```

```
Query OK, 0 rows affected, 5 warnings (0.10 sec)
```

```
mysql> show tables;
```

```
+-----+  
| Tables_in_anudip99 |  
+-----+  
| employee            |  
+-----+
```

2. Insert the following data into **EMPLOYEE** table.

EMPLOYEE_ID	LAST_NAME	JOB_ID	SALARY	COMM_PCT	MGR_ID	DEPARTMENT_ID
198	Connell	SH_CLERK	2600	2.5	124	50
199	Grant	SH_CLERK	2600	2.2	124	50
200	Whalen	AD_ASST	4400	1.3	101	10
201	Hartstein	IT_PROG	6000	null	100	20
202	Fay	AC_MGR	6500	null	210	20
203	Mavris	AD_VP	7500	null	101	40
204	Baer	AD_PRES	3500	1.5	101	90
205	Higgins	AC_MGR	2300	null	101	60

206	Gitz	IT_PROG	5000	null	103	60
100	King	AD_ASST	8956	0.3	108	100
101	Kochar	SH_CLERK	3400	1.3	118	30

```
mysql> insert into employee values(199, 'Grant', 'SH_CLERK', 2600, 2.2, 124, 50),
(200, 'Whalen', 'AD_ASST', 4400, 1.3, 101, 10),
(201, 'Hartstein', 'IT_PROG', 6000, null, 100, 20),
(202, 'Fay', 'AC_MGR', 6500, null, 210, 20),
(203, 'Mavris', 'AD_VP', 7500, null, 101, 40),
(204, 'Baer', 'AC_PRES', 3500, 1.5, 101, 90),
(205, 'Higgins', 'AC_MGR', 2300, null, 101, 60),
(206, 'Gitz', 'IT_PROG', 5000, null, 103, 60),
(100, 'King', 'AD_ASST', 8956, 0.3, 108, 100),
(101, 'Kochar', 'SH_CLERK', 3400, 1.3, 118, 30);
Query OK, 10 rows affected (0.03 sec)
Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> select * from employee;
```

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
198	Connell	SH_CLERK	2600	3	124	50
199	Grant	SH_CLERK	2600	2	124	50
200	Whalen	AD_ASST	4400	1	101	10
201	Hartstein	IT_PROG	6000	NULL	100	20
202	Fay	AC_MGR	6500	NULL	210	20
203	Mavris	AD_VP	7500	NULL	101	40
204	Baer	AC_PRES	3500	2	101	90
205	Higgins	AC_MGR	2300	NULL	101	60
206	Gitz	IT_PROG	5000	NULL	103	60
100	King	AD_ASST	8956	0	108	100
101	Kochar	SH_CLERK	3400	1	118	30

```
11 rows in set (0.00 sec)
```

3. Display last_name, job_id, employee_id for each employee with employee_id appearing first.

```
mysql> select emp_id as employee_id, last_name, job_id, emp_id from
employee;
```

employee_id	last_name	job_id	emp_id
198	Connell	SH_CLERK	198
199	Grant	SH_CLERK	199
200	Whalen	AD_ASST	200
201	Hartstein	IT_PROG	201
202	Fay	AC_MGR	202
203	Mavris	AD_VP	203
204	Baer	AC_PRES	204
205	Higgins	AC_MGR	205
206	Gitz	IT_PROG	206
100	King	AD_ASST	100
101	Kocher	SH_CLERK	101

11 rows in set (0.00 sec)

4. Display the details of all employees of department 60.

mysql> select * from employee where dept_id=60;

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
205	Higgins	AC_MGR	2300	NULL	101	60
206	Gitz	IT_PROG	5000	NULL	103	60

2 rows in set (0.00 sec)

5. Display the employee details of the employee who's last_name is King.

mysql> select * from employee where last_name='King';

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
100	King	AD_ASST	8956	0	108	100

1 row in set (0.00 sec)

6. Display unique job_id from **EMPLOYEE** table. Give the alias name to the column as JOB_TITLE.

```
mysql> select job_id as JOB_TITLE from employee;
```

```
+-----+
| JOB_TITLE |
+-----+
| SH_CLERK  |
| SH_CLERK  |
| AD_ASST   |
| IT_PROG   |
| AC_MGR    |
| AD_VP     |
| AC_PRES   |
| AC_MGR    |
| IT_PROG   |
| AD_ASST   |
| SH_CLERK  |
+-----+
```

11 rows in set (0.00 sec)

7. Display last_name, salary and salary increase of Rs300. Give the new column name as 'Increased Salary'.

```
mysql> select last_name, salary, salary+300 as 'Increased Salary' from employee;
```

```
+-----+-----+-----+
| last_name | salary | Increased Salary |
+-----+-----+-----+
| Connell   | 2600   | 2900             |
| Grant     | 2600   | 2900             |
| Whalen    | 4400   | 4700             |
| Hartstein | 6000   | 6300             |
| Fay       | 6500   | 6800             |
| Mavris    | 7500   | 7800             |
| Baer      | 3500   | 3800             |
| Higgins   | 2300   | 2600             |
| Gitz      | 5000   | 5300             |
| King      | 8956   | 9256             |
| Kochar    | 3400   | 3700             |
+-----+-----+-----+
```

11 rows in set (0.03 sec)

8. Display last_name, salary and **annual** compensation of all employees, plus a one time bonus of Rs 100. Give an alias name to the column displaying annual compensation.

```
mysql> select last_name, salary, (salary+300)*12+100 as 'Annual Compensation'
from employee;
```

last_name	salary	Annual Compensation
Connell	2600	34900
Grant	2600	34900
Whalen	4400	56500
Hartstein	6000	75700
Fay	6500	81700
Mavris	7500	93700
Baer	3500	45700
Higgins	2300	31300
Gitz	5000	63700
King	8956	111172
Kochar	3400	44500

11 rows in set (0.00 sec)

9. Display the details of those employees who get commission.
10. Display the details of those employees who do not get commission.
11. Display the Employee_id, Department_id and Salary all employees whose salary is greater than 5000.

```
mysql> select emp_id, dept_id, salary from employee where salary>5000;
```

emp_id	dept_id	salary
201	20	6000
202	20	6500
203	40	7500
100	100	8956

4 rows in set (0.00 sec)

12.Display the Last_Name and Salary of all employees whose salary is between 4000 and 7000.

```
mysql> select last_name, salary from employee where salary between 4000 and 7000;
```

```
+-----+-----+
| last_name | salary |
+-----+-----+
| Whalen   | 4400   |
| Hartstein | 6000   |
| Fay      | 6500   |
| Gitz     | 5000   |
+-----+-----+
```

4 rows in set (0.00 sec)

13.Display the details of all employees whose salary is either 6000 or 6500 or 7000.

```
mysql> select * from employee where salary=6000 or salary =6500 or salary=7000;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | last_name | job_id   | salary | comm_pct | mgr_id | dept_id |
+-----+-----+-----+-----+-----+-----+-----+
| 201    | Hartstein | IT_PROG  | 6000   | NULL    | 100    | 20      |
| 202    | Fay       | AC_MGR   | 6500   | NULL    | 210    | 20      |
+-----+-----+-----+-----+-----+-----+-----+
```

2 rows in set (0.00 sec)

14.Display the details of all those employees who work either in department 10 or 20 or 30 or 50.

```
mysql> select * from employee where dept_id=10 or dept_id=20 or dept_id=30 or dept_id=50;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| emp_id | last_name | job_id   | salary | comm_pct | mgr_id | dept_id |
+-----+-----+-----+-----+-----+-----+-----+
| 198    | Connell   | SH_CLERK | 2600   | 3        | 124    | 50      |
| 199    | Grant     | SH_CLERK | 2600   | 2        | 124    | 50      |
| 200    | Whalen    | AD_ASST  | 4400   | 1        | 101    | 10      |
| 201    | Hartstein | IT_PROG  | 6000   | NULL     | 100    | 20      |
| 202    | Fay       | AC_MGR   | 6500   | NULL     | 210    | 20      |
| 101    | Kochar    | SH_CLERK | 3400   | 1        | 118    | 30      |
+-----+-----+-----+-----+-----+-----+-----+
```

6 rows in set (0.00 sec)

15.Display the details of all employees whose salary is not equal to 5000.

```
mysql> select * from employee where salary!=5000;
```

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
198	Connell	SH_CLERK	2600	3	124	50
199	Grant	SH_CLERK	2600	2	124	50
200	Whalen	AD_ASST	4400	1	101	10
201	Hartstein	IT_PROG	6000	NULL	100	20
202	Fay	AC_MGR	6500	NULL	210	20
203	Mavris	AD_VP	7500	NULL	101	40
204	Baer	AC_PRES	3500	2	101	90
205	Higgins	AC_MGR	2300	NULL	101	60
100	King	AD_ASST	8956	0	108	100
101	Kochar	SH_CLERK	3400	1	118	30

10 rows in set (0.00 sec)

16.Display the details of all the CLERKS working in the organization.

```
mysql> select * from employee where job_id='SH_CLERK';
```

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
198	Connell	SH_CLERK	2600	3	124	50
199	Grant	SH_CLERK	2600	2	124	50
101	Kochar	SH_CLERK	3400	1	118	30

3 rows in set (0.01 sec)

17.Update the job_id's of the employees who earn more than 5000 to Grade_A.
Display the table **EMPLOYEE** after updating.

```
mysql> update employee set job_id='Grade_A' where salary>5000;
```

Query OK, 4 rows affected (0.03 sec)

Rows matched: 4 Changed: 4 Warnings: 0

```
mysql> select * from employee;
```

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
198	Connell	SH_CLERK	2600	3	124	50
199	Grant	SH_CLERK	2600	2	124	50
200	Whalen	AD_ASST	4400	1	101	10
201	Hartstein	Grade_A	6000	NULL	100	20
202	Fay	Grade_A	6500	NULL	210	20
203	Mavris	Grade_A	7500	NULL	101	40
204	Baer	AC_PRES	3500	2	101	90
205	Higgins	AC_MGR	2300	NULL	101	60
206	Gitz	IT_PROG	5000	NULL	103	60
100	King	Grade_A	8956	0	108	100
101	Kochar	SH_CLERK	3400	1	118	30

```
+-----+-----+-----+-----+-----+-----+-----+
```

11 rows in set (0.00 sec)

18.Display the details of all those employees who are either CLERK or PROGRAMMER or ASSISTANT.

```
mysql> select * from employee where job_id='SH_CLERK' or  
job_id='IT_PROG' or job_id='AD_ASST';
```

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
198	Connell	SH_CLERK	2600	3	124	50
199	Grant	SH_CLERK	2600	2	124	50
200	Whalen	AD_ASST	4400	1	101	10
206	Gitz	IT_PROG	5000	NULL	103	60
101	Kochar	SH_CLERK	3400	1	118	30

```
+-----+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

19.Display those employees from the **EMPLOYEE** table whose designation is CLERK and salary is less than 3000.

```
mysql> select * from employee where job_id='SH_CLERK' and salary<3000;
```

emp_id	last_name	job_id	salary	comm_pct	mgr_id	dept_id
198	Connell	SH_CLERK	2600	3	124	50
199	Grant	SH_CLERK	2600	2	124	50

2 rows in set (0.00 sec)

20.Display those employees Last_Name, Mgr_id from the **EMPLOYEE** table whose salary is above 3000 and work under Manager 101.

```
mysql> select last_name, mgr_id from employee where salary>=3000 and mgr_id=101;
```

last_name	mgr_id
Higgins	101

1 row in set (0.00 sec)